



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, DC 20460

OFFICE OF CHEMICAL SAFETY
AND POLLUTION PREVENTION

November 10, 2022

Samantha Miller, Ph.D.
US CP Regulatory Leader
Corteva Agriscience
9330 Zionsville Road
Indianapolis, IN 46268

Subject: PRIA Label Amendment – Adding new seed treatment uses on Sweet Corn and Sorghum to claim Cereal Grains (Crop Group 15, except rice) and one bean and one pea to claim Dried Beans and Dried Peas (Crop Subgroup 6c, except soybean), updating language to permit on-farm seed treatment application on cereal grains (except corn, rice and sorghum) and dried shelled bean and pea, revising the commercial seed bag label; other minor label changes
Product Name: LUMIVIA
EPA Registration Number: 352-841
Application Date: 2/25/2021
Decision Number: 571990

Dear Ms. Miller:

The application referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA), as amended, is acceptable under FIFRA section 3(c)(7)(A), subject to the following conditions:

1. You must submit and/or cite all data required for registration/reregistration/registration review of your product under FIFRA when the Agency requires all registrants of similar products to submit such data.
2. You are required to comply with the data requirements described in the generic data call-in (GDCI) order identified below:
 - a. Chlorantraniliprole GDCI-090100-1895

You must comply with all of the data requirements within the established deadlines. If you have questions about the GDCI listed above, you may contact the Chemical Review Manager in the Pesticide Re-Evaluation Division:

<http://iaspub.epa.gov/apex/pesticides/f?p=chemicalsearch:1>

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A stamped copy of your labeling is enclosed for your records. This labeling supersedes all previously accepted labeling. You must submit one (1) copy of the final printed labeling before you release the product for shipment with the new labeling. In accordance with 40 CFR 152.130(c), you may distribute or sell this product under the previously approved labeling for 18 months from the date of this letter. After 18 months, you may only distribute or sell this product if it bears this new revised labeling or subsequently approved labeling. "To distribute or sell" is defined under FIFRA section 2(gg) and its implementing regulation at 40 CFR 152.3.

Should you wish to add/retain a reference to the company's website on your label, then please be aware that the website becomes labeling under FIFRA and is subject to review by the Agency. If the website is false or misleading, the product would be misbranded and unlawful to sell or distribute under FIFRA section 12(a)(1)(E). 40 CFR 156.10(a)(5) lists examples of statements EPA may consider false or misleading. In addition, regardless of whether a website is referenced on your product's label, claims made on the website may not substantially differ from those claims approved through the registration process. Therefore, should the Agency find or if it is brought to our attention that a website contains false or misleading statements or claims substantially differing from the EPA approved registration, the website will be referred to the EPA's Office of Enforcement and Compliance.

Your release for shipment of the product constitutes acceptance of these conditions. If you fail to satisfy these data requirements, EPA will consider appropriate regulatory action including, among other things, cancellation under FIFRA section 6(e).

If you have any questions, please contact Jasmin Jackson at 202-566-2797 or at Jackson.Jasmin@epa.gov.

Sincerely,



Dee Colby, Chief
Invertebrate & Vertebrate Branch 3
Registration Division
Office of Pesticide Programs

Enclosure: Stamped Label & Supplemental Labels

(Base label)

CHLORANTRANILIPROLE	GROUP	28	INSECTICIDE
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Lumivia®

[Bracketed information is optional text.]

[Note to PM: the qualifier statement for the ABNs that contain "CPL" and "M" will be presented as shown directly beneath the ABN.]

[Alternate Brand Name: Lumivia CPL*]

*CPL stands for Cereal Product Label]

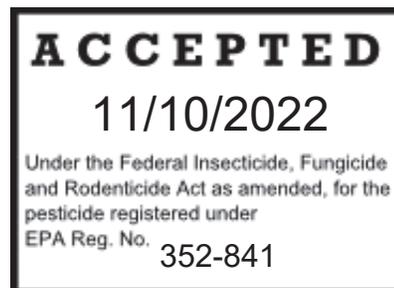
[Alternate Brand Name: Dermacor]

[Alternate Brand Name: Dermacor M*]

*M stands for Mexico]

[Alternate Brand Name: DuPont Lumivia Insecticide Seed Treatment]

[Alternate Brand Name: Lumivia Insecticide Seed Treatment]



[INSECTICIDE SEED TREATMENT]

For seed treatment applications for listed insect pest control to:

- **Cereal grains (except rice and corn) listed in Crop Group 15 (including barley, buckwheat, pearl millet, proso millet, oats, rye, sorghum, triticale, and wheat)**
- **Corn (including field corn, popcorn, and sweet corn)**
- **Dried shelled pea and bean (except soybean) listed in Crop Subgroup 6C (including lentil, field pea, chickpea, and dry beans)**

Active Ingredient

By Weight

Chlorantraniliprole:

3-Bromo-N-[4-chloro-2-methyl-6-[(methylamino)carbonyl]phenyl]-1-(3-chloro-2-pyridinyl)-1H-pyrazole-5-carboxamide.....50%

Other Ingredients50%

Total 100%

Lumivia is a flowable suspension.

Contains 5.21 lbs. active ingredient per gallon.

Keep Out of Reach of Children

Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle. (If you do not understand the label, find someone to explain it to you in detail.)

First Aid
For questions regarding emergency medical treatment, you may contact 1-800-992-5994 for information.

Precautionary Statements

Hazards to Humans and Domestic Animals

When used as directed this product does not present a hazard to humans or domestic animals.

Personal Protective Equipment (PPE)

Applicators and other handlers must wear:

- Long-sleeved shirt and long pants.
- Shoes plus socks.

After the product has been diluted in accordance with label directions for use, shirt, pants, socks, and shoes are sufficient PPE.

User Safety Requirements

Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables are available, use detergent and hot water. Keep and wash PPE separately from other laundry.

User Safety Recommendations

Users should:

- Wash hands thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, or using the toilet.
- Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.

Environmental Hazards

This pesticide is toxic to aquatic invertebrates, oysters, and shrimp. Do not apply directly to water. Drift and runoff may be hazardous to aquatic organisms in water adjacent to use sites.

Surface Water Advisory

This product contains chlorantraniliprole which may impact surface water quality due to runoff of rain water. This is especially true for poorly draining soils and soils with shallow ground water. Chlorantraniliprole is classified as having high potential for reaching surface water via runoff for several months or more after application. A level, well-maintained vegetative buffer strip between areas to which this product is applied and surface water features such as ponds, streams, and springs will reduce the potential loading of chlorantraniliprole from runoff water and sediment. Runoff of this product will be reduced by avoiding applications when rainfall is forecasted to occur within 48 hours.

Ground Water Advisory

Chlorantraniliprole has properties and characteristics associated with chemicals detected in ground water. This chemical may leach into ground water if used in areas where soils are permeable, particularly where the water table is shallow.

Directions for Use

It is a violation of Federal law to use this product in a manner inconsistent with its labeling. Refer to inside of label booklet for additional precautionary information, First Aid, and complete Directions for Use.

Agricultural Use Requirements

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR Part 170. Refer to label booklet under "Agricultural Use Requirements" in the Directions for Use section for information about this standard.

(Nonrefillable Rigid Plastic and Metal Containers (Capacity Equal to or Less Than 5 Gallons)):

Storage and Disposal

Do not contaminate water, food, or feed by storage or disposal.

PESTICIDE STORAGE: Do not subject to temperatures below 32 degrees F. Store product in original container only in a location inaccessible to children and pets. Do not contaminate water, other pesticides, fertilizer, food or feed in storage. Not for use or storage in or around the home.

PESTICIDE DISPOSAL: Do not contaminate water, food or feed by storage or disposal. Wastes resulting from the use of this product must be disposed of on site or at an approved waste disposal facility.

CONTAINER HANDLING:

Nonrefillable container. Do not reuse or refill this container. Triple rinse container (or equivalent) promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container 1/4 full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times. Then, for Plastic Containers, offer for recycling if available or puncture and dispose of in a sanitary landfill, or by incineration. For Metal Containers, offer for recycling if available or reconditioning if appropriate or puncture

and dispose of in a sanitary landfill, or by other procedures approved by state and local authorities. Do not transport if container is damaged or leaking. If the container is damaged, leaking or obsolete, or in the event of a major spill, fire or other emergency, contact Corteva Agriscience at 1-800-992-5994, day or night.

(Nonrefillable Plastic and Metal Containers (Capacity Greater Than 5 Gallons)):

Storage and Disposal

Do not contaminate water, food, or feed by storage or disposal.

PESTICIDE STORAGE: Do not subject to temperatures below 32 degrees F. Store product in original container only in a location inaccessible to children and pets. Do not contaminate water, other pesticides, fertilizer, food or feed in storage. Not for use or storage in or around the home.

PESTICIDE DISPOSAL: Do not contaminate water, food or feed by storage or disposal. Wastes resulting from the use of this product must be disposed of on site or at an approved waste disposal facility.

CONTAINER HANDLING:

Nonrefillable container. Do not reuse or refill this container. Triple rinse container (or equivalent) promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container 1/4 full with water. Replace and tighten closures. Tip container on its side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds. Stand the container on its end and tip it back and forth several times. Turn the container over onto its other end and tip it back and forth several times. Empty the rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Repeat this procedure two more times. Then, for Plastic Containers, offer for recycling if available or puncture and dispose of in a sanitary landfill, or by incineration. For Metal Containers, offer for recycling if available or reconditioning if appropriate or puncture and dispose of in a sanitary landfill, or by other procedures approved by state and local authorities.

Do not transport if container is damaged or leaking. If the container is damaged, leaking or obsolete, or in the event of a major spill, fire or other emergency, contact Corteva Agriscience at 1-800-992-5994, day or night.

(Nonrefillable Plastic and Metal Containers, e.g., Intermediate Bulk Containers [IBC] (Size or Shape Too Large to be Tipped, Rolled, or Turned Upside Down)):

Storage and Disposal

Do not contaminate water, food, or feed by storage or disposal.

PESTICIDE STORAGE: Do not subject to temperatures below 32 degrees F. Store product in original container only in a location inaccessible to children and pets. Do not contaminate water, other pesticides, fertilizer, food or feed in storage. Not for use or storage in or around the home.

PESTICIDE DISPOSAL: Do not contaminate water, food or feed by storage or disposal. Wastes resulting from the use of this product must be disposed of on site or at an approved waste disposal facility.

CONTAINER HANDLING:

Nonrefillable container. Do not reuse or refill this container. Clean container promptly after emptying the contents from this container into application equipment or mix tank and before final disposal using the following pressure rinsing procedure. Insert a lance fitted with a suitable tank cleaning nozzle into the container and ensure that the water spray thoroughly covers the top, bottom and all sides inside the container. The nozzle manufacturer generally provides instructions for the appropriate spray pressure, spray duration and/or spray volume. If the manufacturer's instructions are not available, pressure rinse the container for at least 60 seconds using a minimum pressure of 30 PSI with a minimum rinse volume of 10% of the container volume. Drain, pour or pump rinsate into application equipment or rinsate collection system. Repeat this pressure rinsing procedure two more times. Then, for Plastic Containers, offer for recycling if available or puncture and dispose of in a sanitary landfill, or by incineration. For Metal Containers, offer for recycling if available or reconditioning if appropriate, or puncture and dispose of in a sanitary landfill, or by other procedures approved by state and local authorities.

Do not transport if container is damaged or leaking. If the container is damaged, leaking or obsolete, or in the event of a major spill, fire or other emergency, contact Corteva Agriscience at 1-800-992-5994, day or night.

(Refillable Plastic and Metal Containers, e.g., Intermediate Bulk Containers [IBC] (Size or Shape Too Large to be Tipped, Rolled, or Turned Upside Down)):

Storage and Disposal

Do not contaminate water, food, or feed by storage or disposal.

PESTICIDE STORAGE: Do not subject to temperatures below 32 degrees F. Store product in original container only in a location inaccessible to children and pets. Do not contaminate water, other pesticides, fertilizer, food or feed in storage. Not for use or storage in or around the home.

PESTICIDE DISPOSAL: Do not contaminate water, food or feed by storage or disposal. Wastes resulting from the use of this product must be disposed of on site or at an approved waste disposal facility.

CONTAINER HANDLING:

Refillable container. *Refilling Container:* Refill this container with this product containing Chlorantraniliprole only. Do not reuse this container for any other purpose. Cleaning before refilling is the responsibility of the refiller. Prior to refilling, inspect carefully for damage such as cracks, punctures, abrasions, worn out threads and closure devices. If leaks are found, do not reuse or transport container, call the number below for instructions. *Disposing of Container:* Do not reuse this container for any other purpose other than refilling (see preceding). Cleaning the container before final disposal is the responsibility of the person disposing of the container. To clean the container before final disposal, use the following pressure rinsing procedure. Insert a lance fitted with a suitable tank cleaning nozzle into the container and ensure that the water spray thoroughly covers the top, bottom and all sides inside the container. The nozzle manufacturer generally provides instructions for the appropriate spray pressure, spray duration and/or spray volume. If the manufacturer's instructions are not available, pressure rinse the container for at least 60 seconds using a minimum pressure of 30 PSI with a minimum rinse volume of 10% of the container volume. Drain, pour or pump rinsate into application equipment or rinsate collection system. Repeat this pressure rinsing procedure two more times. Then, for Plastic Containers, offer for recycling if available or puncture and dispose of in a sanitary landfill, or by incineration. For Metal Containers, offer for recycling if available or reconditioning if appropriate, or puncture and dispose of in a sanitary landfill, or by other procedures approved by state and local authorities.

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Notice: Read the entire label. Use only according to label directions. Before using this product, read Warranty Disclaimer, Inherent Risks of Use, and Limitation of Remedies at end of label booklet. If terms are unacceptable, return at once unopened.

In case of emergency endangering health or the environment involving this product, call 1-800-992-5994.

Agricultural Chemical: Do not ship or store with food, feeds, drugs, or clothing.

EPA Reg. No. 352-841

EPA Est. No.: _____
[Batch or Lot Code _____]
[CD02-xxx-xxx]

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**Produced for
Corteva Agriscience LLC
9330 Zionsville Road
Indianapolis, IN 46268**

NET CONTENTS _____

(Booklet cover)

CHLORANTRANILIPROLE	GROUP	28	INSECTICIDE
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Lumivia®

[Editor's note: Bracketed information is optional text.]

[Note to PM: the qualifier statement for the ABNs that contain "CPL" and "M" will be presented as shown directly beneath the ABN.]

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*CPL stands for Cereal Product Label]

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[Alternate Brand Name: DuPont Lumivia Insecticide Seed Treatment]

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- **Cereal grains (except rice and corn) listed in Crop Group 15 (including barley, buckwheat, pearl millet, proso millet, oats, rye, sorghum, triticale, and wheat)**
- **Corn (including field corn, popcorn, and sweet corn)**
- **Dried shelled pea and bean (except soybean) listed in Crop Subgroup 6C (including lentil, field pea, chickpea, and dry beans)**

Active Ingredient**By Weight**

Chlorantraniliprole:

3-Bromo-N-[4-chloro-2-methyl-6-[(methylamino)carbonyl]phenyl]-1-

(3-chloro-2-pyridinyl)-1H-pyrazole-5-carboxamide.....50%

Other Ingredients50%

Total100%

Lumivia is a flowable suspension.

Contains 5.21 lbs. active ingredient per gallon.

Keep Out of Reach of Children

Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle. (If you do not understand the label, find someone to explain it to you in detail.)

Agricultural Use Requirements

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR Part 170. Refer to label booklet under "Agricultural Use Requirements" in the Directions for Use section for information about this standard.

Refer to inside of label booklet for additional precautionary information, First Aid, and complete Directions for Use.**Notice:** Read the entire label. Use only according to label directions. Before using this product, read Warranty Disclaimer, Inherent Risks of Use, and Limitation of Remedies at end of label booklet. If terms are unacceptable, return at once unopened.

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(Booklet page 1 through end)

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First Aid

For questions regarding emergency medical treatment, you may contact 1-800-992-5994 for information.

Precautionary Statements

Hazards to Humans and Domestic Animals

When used as directed this product does not present a hazard to humans or domestic animals.

Personal Protective Equipment (PPE)

Applicators and other handlers must wear:

- Long-sleeved shirt and long pants.
- Shoes plus socks.

After the product has been diluted in accordance with label directions for use, shirt, pants, socks, and shoes are sufficient PPE.

User Safety Requirements

Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables are available, use detergent and hot water. Keep and wash PPE separately from other laundry.

User Safety Recommendations

Users should:

- Wash hands thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, or using the toilet.
- Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.

Environmental Hazards

This pesticide is toxic to aquatic invertebrates, oysters, and shrimp. Do not apply directly to water. Drift and runoff may be hazardous to aquatic organisms in water adjacent to use sites.

Surface Water Advisory

This product contains chlorantraniliprole which may impact surface water quality due to runoff of rain water. This is especially true for poorly draining soils and soils with shallow ground water. Chlorantraniliprole is classified as having high potential for reaching surface water via runoff for several months or more after application. A level, well-maintained vegetative buffer strip between areas to which this product is applied and surface water features such as ponds, streams, and springs will reduce the potential loading of chlorantraniliprole from runoff water and sediment. Runoff of this product will be reduced by avoiding applications when rainfall is forecasted to occur within 48 hours.

Ground Water Advisory

Chlorantraniliprole has properties and characteristics associated with chemicals detected in ground water. This chemical may leach into ground water if used in areas where soils are permeable, particularly where the water table is shallow.

Directions for Use

It is a violation of Federal law to use this product in a manner inconsistent with its labeling. Read all Directions for Use carefully before applying.

Agricultural Use Requirements

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR Part 170. This Standard contains requirements for the protection of agricultural workers on farms, forests, nurseries, and greenhouses, and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification, and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on this label about personal protective equipment (PPE), and restricted entry interval. The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard.

Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application. For any requirement specific to your State and Tribe, consult the State/Tribal agency responsible for pesticide regulation.

Do not enter or allow worker entry into treated areas during the restricted entry interval (REI) of 4 hours.

Exception: Once the seeds are planted in soil, the Worker Protection Standard, under certain circumstances, allows workers to enter the treated area without restriction if there will be no worker contact with the soil subsurface or treated seed.

For early entry to treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soil, or water, wear:

- Long-sleeved shirt and long pants
- Shoes plus socks

Product Information

Lumivia® is a seed treatment product for use on listed crops to provide protection against early season injury from listed pests.

Lumivia must be applied to corn and sorghum in commercial seed treatment facilities only.

Lumivia may be applied to cereal grains in crop group 15 (except rice, corn, and sorghum) and dried shelled pea and bean within crop subgroup 6C (except soybean) on-farm at agricultural establishments or at commercial seed treatment facilities.

This product is a member of the anthranilic diamide class of insecticides with a mode of action acting on insect ryanodine receptors. This product is effective through ingestion of treated plant material. After exposure to this product, affected insects will rapidly stop feeding, become paralyzed, and typically die within 1 to 3 days.

Consult your local company representative or agricultural advisor for guidance on predicted pest pressure based on historical field data for these pests in your area.

Use this seed treatment product only in accordance with directions on this label or with approved EPA supplemental labeling.

Treating significantly damaged seed or seed that is low vigor or overall poor quality may result in reduced germination, seedling vigor and plant stand. Before treating an entire seed lot with the proposed seed treatment, treat a small portion of the seed lot and conduct subsequent germination tests. Corteva Agriscience makes no guarantee regarding the germination of damaged or carryover treated seed since seed quality and storage conditions are beyond the control of Corteva Agriscience.

Corteva Agriscience will not be responsible for losses or damages resulting from the use of this product in any manner not specifically stated on this label. User assumes all risks associated with such non-specified use.

Use Restrictions

- Apply this product to corn and sorghum in commercial seed treatment facilities only.
- Store treated seed away from food or feed.
- Do not allow children, pets, or livestock to have access to treated seed.
- Treated seed must not be used for or mixed with food or animal feed, or processed for oil.
- Store treated seed away from food or feed.
- Treated seed exposed on soil surface may be hazardous to aquatic invertebrates.
- Dispose of all excess treated seed by burying seed away from bodies of water.
- Do not contaminate water bodies when disposing of planting equipment washwaters.
- Ensure planted seed is covered with soil. Cover or collect spilled seeds.
- Do not exceed a maximum of 0.054 lb chlorantraniliprole per acre (25 grams ai/A) regardless of seeding density.
- Do not apply more than 0.2 lb ai of any chlorantraniliprole-containing products per acre per calendar year.
- Following the planting of seed treated with this product, total foliar applications for a crop must not exceed a total rate of 0.146 lb chlorantraniliprole per acre. Soil applications of products containing chlorantraniliprole are not permitted.
- Except for emergency replant situations due to crop failure, following the planting of seed treated with this product, do not apply chlorantraniliprole or other Group 28 products for 60 days. Application(s) to the next generation of target pest(s) must be with an effective product with a different mode of action (non-Group 28 insecticide).
- Use of this product as a seed treatment must be communicated to all personnel involved in seasonal insect control applications.

Integrated Pest Management

Corteva Agriscience supports the use of Integrated Pest Management (IPM) programs to control pests. This product may be used as part of an IPM program, which can include biological, cultural, and genetic practices, aimed at preventing economic pest damage. IPM principles and practices include field scouting or other detection methods, correct target pest identification, population monitoring, rotation of insecticides with different modes of action, and treating when target pest populations reach locally determined action thresholds. Consult your state cooperative extension service, professional consultants or other qualified authorities to determine appropriate action treatment threshold levels for treating specific pest/crop or site systems in your area.

Resistance Management

This product is a Group 28 Insecticide. Repeated and exclusive use of this product or other Group 28 insecticides may lead to the buildup of resistant strains of insects in some crops. Because the development of resistance cannot be predicted, this product may be used as part of resistance management strategies established for the use area. These strategies may include incorporation of cultural and biological control practices, alternation of mode-of-action classes of insecticides (non-Group 28) on succeeding generations, and targeting the most susceptible life stage. Consult your local or state agricultural authorities for details.

When planting any seed treated with this product, unless directed otherwise in the specific crop/pest sections of this label, the best practices are to follow these instructions to delay the development of insecticide resistance:

- Avoid using the same mode of action (same insecticide group) on consecutive generations of insect pests.
- Apply this product or other Group 28 insecticides using a “treatment window” approach to avoid exposure of successive insect pest generations to the same mode of action.
- A “treatment window” is defined as the period of residual activity provided by single or sequential applications of products with the same mode of action.
- This “treatment window” should not exceed approximately the length of one generation of the target pest which may vary from 25 to 40 days.
- Except for emergency replant situations, following the planting of seed treated with this product, do not apply chlorantraniliprole or other Group 28 products for 60 days. Application(s) to the next generation of target pest(s) must be with an effective product with a different mode of action (non-Group 28 insecticide).
- Following a “Group 28 treatment window,” rotate to a treatment window of effective products with a different mode of action. This “Non-Group 28 Window” should approximate the duration of one generation of the target pest. Target the most susceptible insect life stages whenever possible.

If resistance develops in your area, this product or other products with a similar mode of action may not provide adequate control. If poor performance cannot be attributed to improper application or extreme weather conditions a resistant strain of insect may be present.

If you experience difficulty with control and resistance is a reasonable cause, immediately consult your local Corteva Agriscience representative or agricultural advisor for the best alternate method of control for your area. For additional information on insect resistance monitoring, visit the Insecticide Resistance Action Committee (IRAC) on the web at <http://www.irc-online.org>.

Mixing Guidance

Apply as a water-based slurry utilizing calibrated seed treatment equipment. Treatment equipment must be clean and free of previous pesticide deposits before applying this product. Add this product directly to mixing tank. Mix thoroughly the specified amount of this product with the required amount of water.

Add an EPA-approved dye or colorant to treat the seeds per 40 CFR 153.155(b)(1) during the seed treatment process. Ensure that all treated seed are dyed an unnatural color.

It is the pesticide user's responsibility to ensure that all products are registered for the intended use. Read and follow the applicable restrictions and limitations and directions for use on all product labels involved in tank mixing. Users must follow the most restrictive directions for use and precautionary statements of each product in the tank mixture. Do not mix this product with any product that prohibits such mixing.

Test potential mixing partners for physical compatibility with this product and added dyes or polymers before mixing in a large tank for seed treatment. Avoid mixtures of several materials and very concentrated spray mixtures.

Mixing Tank Cleanout

Prior to application, start with clean, well maintained application equipment. Immediately following application, thoroughly clean all mixing equipment to reduce the risk of forming hardened deposits which might become difficult to remove.

Drain mixing equipment. Thoroughly rinse mixing equipment and flush with clean water.

Clean all other associated application equipment. Take all necessary safety precautions when cleaning equipment. Do not clean near wells, water sources, or desirable vegetation. Dispose of waste rinse water in accordance with local regulations.

APPLICATION AND USE RATES

COMMERCIAL SEED TREATMENT FACILITIES ONLY

Corn – Seed Treatment

This product will provide protection against early season injury to corn from black cutworm, fall armyworm, seedcorn maggot, white grub, and wireworm.

Listed crop seed treated with this product may be replanted if an emergency replanting due to crop failure occurs.

Use this product as directed to listed crop seeds in the following use-rate table for control of listed insects.

Seed Crop	Pest*	mg active ingredient / seed	fl oz of product / unit of seed**	lb active ingredient / unit of seed **
<ul style="list-style-type: none"> • Field corn • Popcorn • Sweet corn 	<ul style="list-style-type: none"> • Black cutworm • Fall armyworm • Seedcorn maggot • White grub • Wireworm 	0.25 to 0.75 mg	1.08 to 3.25 fl oz	0.044 to 0.132 lb

Restrictions

- Do not exceed a maximum of 0.054 lb chlorantraniliprole per acre (25 grams ai/acre) regardless of corn seeding density.***
- Do not apply more than 0.2 lb ai of chlorantraniliprole-containing products per acre per calendar year.
- Corn must be treated only in commercial seed treatment facilities. Not for use on agricultural establishments.
- Plant corn seeds treated with this product at a soil depth of 1.5 to 2 inches.
- Treated corn seed exposed on soil surface may be hazardous to aquatic invertebrates. Cover or collect treated corn seeds spilled during loading.

* Use the higher rates within the rate range in areas that are predicted to have high pest pressure.

** One corn seed unit is equivalent to 80,000 seeds

$$*** = \text{Treatment rate} \left(\frac{\text{lb chlorantraniliprole}}{80,000 \text{ seeds}} \right) \times \text{Seeding rate} \left(\frac{\text{seeds}}{\text{acre}} \right)$$

Sorghum – Seed Treatment

This product will provide protection against early season injury from armyworm, cutworm, grasshopper, seedcorn maggot, and wireworm.

Listed crop seed treated with this product may be replanted if an emergency replanting due to crop failure occurs.

Use this product as directed to listed crop seeds in the following use-rate table for control of listed insects.

Seed Crop	Pest*	fl oz product / 100 lb of seed	lb active ingredient / 100 lb of seed	g active ingredient / 100 kg of seed
Sorghum (milo)	<ul style="list-style-type: none"> • Armyworm • Cutworm • Grasshopper • Seedcorn maggot • Wireworm 	0.5 to 0.75 fl oz	0.02 to 0.03 lb	20 to 30 g

Restrictions

- Do not exceed a maximum of 0.054 lb chlorantraniliprole per acre (25 grams ai/acre) regardless of seeding density.***
- Do not apply more than 0.2 lb ai of chlorantraniliprole-containing products per acre per calendar year.
- Plant seeds treated with this product at a soil depth of 1 to 2 inches.
- Treated seed exposed on soil surface may be hazardous to aquatic invertebrates. Cover or collect treated seeds spilled during loading.
- Sorghum must be treated in commercial seed treatment facilities only.
- [Not registered for use in California.]

* Use the higher rates within the rate range in areas that are predicted to have high pest pressure.

$$*** = \text{Treatment rate} \left(\frac{\text{lb chlorantraniliprole}}{100 \text{ lb seed}} \right) \times \text{Seeding rate} \left(\frac{\text{lb seed}}{\text{acre}} \right)$$

ON-FARM OR COMMERCIAL SEED TREATMENT FACILITIES

On-farm seed treatment application at agricultural establishments is permitted utilizing mechanical, slurry, or mist-type seed treating equipment, provided that the equipment can be calibrated to accurately and uniformly apply the product to seed.

Cereal Grains Crop Group 15 (except corn, rice, and sorghum) – Seed Treatment

This product will provide protection against early season injury from armyworm, cutworm, grasshopper, seedcorn maggot, and wireworm.

Listed crop seed treated with this product may be replanted if an emergency replanting due to crop failure occurs.

Use this product on-farm at agricultural establishments or at commercial seed treatment facilities as directed to listed crop seeds in the following use-rate table for control of listed insects.

Seed Crop	Pest*	fl oz product / 100 lb of seed	lb active ingredient / 100 lb of seed	g active ingredient / 100 kg of seed
<ul style="list-style-type: none"> • Barley • Buckwheat • Millet, pearl • Millet, proso • Oats • Rye • Triticale • Wheat 	<ul style="list-style-type: none"> • Armyworm • Cutworm • Grasshopper • Seedcorn maggot • Wireworm 	0.5 to 0.75 fl oz	0.02 to 0.03 lb	20 to 30 g
<p>Restrictions</p> <ul style="list-style-type: none"> • Do not exceed a maximum of 0.054 lb chlorantraniliprole per acre (25 grams ai/acre) regardless of seeding density.*** • Do not apply more than 0.2 lb ai of chlorantraniliprole-containing products per acre per calendar year. • Plant seeds treated with this product at a soil depth of 1 to 2 inches. • Treated seed exposed on soil surface may be hazardous to aquatic invertebrates. Cover or collect treated seeds spilled during loading. • Corn and sorghum must be treated in commercial seed treatment facilities only. Not for use on-farm at agricultural establishments. • Not for use on rice. • [Not registered for use in California.] 				

* Use the higher rates within the rate range in areas that are predicted to have high pest pressure.

$$*** = \text{Treatment rate} \left(\frac{\text{lb chlorantraniliprole}}{100 \text{ lb seed}} \right) \times \text{Seeding rate} \left(\frac{\text{lb seed}}{\text{acre}} \right)$$

Dried Shelled Pea and Bean (Except Soybean) Subgroup 6C – Seed Treatment

This product will provide protection against early season injury from armyworm, cutworm, grasshopper, pea leaf weevil, seedcorn maggot, and wireworm.

Listed crop seed treated with this product may be replanted if an emergency replanting due to crop failure occurs.

Use this product on-farm at agricultural establishments or at commercial seed treatment facilities as directed to listed crop seeds in the following use-rate table for control of listed insects.

Seed Crop	Pest*	fl oz of product / 100 lb of seed	lb active ingredient / 100 lb of seed	g active ingredient / 100 kg of seed
Dried cultivars of bean (Lupinus spp.) (includes grain lupin, sweet lupin, white lupin, and white sweet lupin); (Phaseolus spp.) (includes field bean, kidney bean, lima bean (dry), navy bean, pinto bean, tepary bean); bean (Vigna spp.) (includes adzuki bean, blackeyed pea, catjang, cowpea, Crowder pea, moth bean, mung bean, rice bean, southern pea, urd bean); broad bean (dry); chickpea; guar; lablab bean; lentil; pea (Pisum spp.) (includes field pea); pigeon pea)	<ul style="list-style-type: none"> • Armyworm • Cutworm • Grasshopper • Pea leaf weevil • Seedcorn maggot • Wireworm 	When planting rate is 75 to 180 lbs/acre:		
		0.5 to 0.74 fl oz	0.02 to 0.03 lb	20 to 30 g
		When planting rate is less than 75 lbs/acre:		
		0.75 to 1.75 fl oz	0.03 to 0.07 lb	31 to 71 g
Restrictions				
<ul style="list-style-type: none"> • Do not exceed a maximum of 0.054 lb chlorantraniliprole per acre (25 grams ai/acre) regardless of seeding density.*** • Do not apply more than 0.2 lb ai of chlorantraniliprole-containing products per acre per calendar year. • Plant seeds treated with this product at a soil depth of 1 to 2 inches. • Treated seed exposed on soil surface may be hazardous to aquatic invertebrates. Cover or collect treated seeds spilled during loading. • [Not registered for use in California.] 				

* Use the higher rates within the rate range in areas that are predicted to have high pest pressure.

$$*** = \text{Treatment rate} \left(\frac{\text{lb chlorantraniliprole}}{100 \text{ lb seed}} \right) \times \text{Seeding rate} \left(\frac{\text{lb seed}}{\text{acre}} \right)$$

Examples of chlorantraniliprole application rates per acre

To calculate lbs of chlorantraniliprole per acre from Lumivia, use the following table:

Treatment rate (lb active ingredient / 100 lb of seed)	Seeding rate (lb seed/acre)	lb chlorantraniliprole per acre
0.02	50	Not a labeled use rate
	75	0.015
	130	0.026
	180	0.036
0.03	50	0.015
	75	0.023
	130	0.039
	180	0.054
0.07	50	0.035
	75	0.053
	130	Not a labeled use rate
	180	Not a labeled use rate

Restriction: Do not exceed a maximum of 0.054 lb chlorantraniliprole per acre (25 grams ai/acre) regardless of seeding density.

Crop Rotation

Crops on this label and the following crops or crop groups may be planted immediately following harvest:

Artichoke, globe; Asparagus; Banana/Plantain; Brassica (Cole) Leafy Vegetables (Crop Group 5); Bulb Vegetables (Crop Group 3-07); Bushberry subgroup (Crop subgroup 13-07B); Cacao; Caneberry subgroup (Berry and Small Fruit Crop Group subgroup 13-07A); Cereal Grains (Crop Group 15); Forage, Fodder, and Straw of Cereal Grains (Crop Group 16); Citrus (Crop Group 10-10); Coffee; Corn (field, pop, seed, and sweet); Cotton; Cucurbit Vegetables (Crop Group 9); Figs; Fruiting Vegetables (Crop Group 8-10); Grass Forage, Fodder, and Hay Group (Crop Group 17); Herbs subgroup (Crop Group subgroup 19A); Grape; Hops; Large Shrub/Tree Berry subgroup (Crop subgroup 13-07C); Leafy Vegetables (nonbrassica, Crop Group 4); Legume Vegetables (Crop Group 6); Foliage of Legume Vegetables (Crop Group 7); Low Growing Berry subgroup (Crop subgroup 13-07G); Nongrass Animal Feeds (Forage, Fodder, Straw, and Hay Crop Group 18); Okra; Oilseed Group (Crop Group 20); Olives; Peanut; Persimmons; Pome Fruits (Crop Group 11-10); Pineapple; Pomegranates; Prickly Pear Cactus; Rice; Root and Tuber Vegetables (Crop Group 1); Leaves of Root and Tuber Vegetables (Crop Group 2); Small Fruit Vine Climbing subgroup, except fuzzy kiwifruit (Berry and Small Fruit Crop Group subgroup 13-07F); Soybean; Spice subgroup (Crop Group subgroup 19B); Spearmint and Peppermint; Stone Fruits (Crop Group 12-12); Sugarcane; Tea; Tree Nuts and Pistachio (Crop Group 14); Tobacco; and Tropical Fruits. All other crops cannot be planted until 12 months after the last planting of seed treated with this product.

Commercial Seed Bag Labeling Requirements

The Federal Seed Act requires that the container of seed treated with Lumivia must be labeled with the following information:

- This seed has been treated with Lumivia® which contains chlorantraniliprole.
- Do not use for food, feed, or oil processing.
- User is responsible for ensuring that the seed container meets all requirements under the Federal Seed Act.

In addition, the U.S. Environmental Protection Agency requires the following statements on the container of seed treated with Lumivia (EPA Reg. No. 352-841):

- Do not exceed a maximum of 0.054 lb chlorantraniliprole per acre (25 grams ai/A) regardless of seeding density.
- Following the planting of Lumivia-treated seed, total foliar applications for a crop must not exceed a total rate of 0.146 lb chlorantraniliprole per acre. Soil applications of products containing chlorantraniliprole are not permitted if seeds treated with chlorantraniliprole are planted.
- This cereal grain seed has been treated with chlorantraniliprole at 0.XX [up to 0.03] lb ai per 100 lbs of seed.
- This corn seed has been treated with chlorantraniliprole at 0.XX [up to 0.132] lb ai per 80,000 seeds.
- This dried shelled pea and bean seed has been treated with chlorantraniliprole at 0.XX [up to 0.07] lb ai per 100 lbs of seed.
- Do not apply more than 0.2 lb ai of any chlorantraniliprole-containing products per acre per calendar year.
- Use of seed treated with Lumivia must be communicated to all personnel involved in seasonal insect control applications.
- Plant cereal grain seeds treated with Lumivia at a soil depth of 1 to 2 inches.
- Plant corn seeds treated with Lumivia at a soil depth of 1.5 to 2 inches.
- Plant dried shelled pea and bean seeds treated with Lumivia at a soil depth of 1 to 2 inches.
- Except for emergency replant situations, following the planting of seed treated with Lumivia, do not apply chlorantraniliprole or other Group 28 products for 60 days. Application(s) to the next generation of target pest(s) must be with an effective product with a different mode of action (non-Group 28 insecticide).
- Treated seed exposed on soil surface may be hazardous to aquatic invertebrates. Ensure planted seed is covered with soil. Cover or collect spilled seeds.
- Store away from food or feed.
- Dispose of all excess treated seed by burying seed away from bodies of water.
- Do not contaminate water bodies when disposing of planting equipment washwaters.
- **Surface Water Advisory:** This product contains chlorantraniliprole which may impact surface water quality due to runoff of rain water. This is especially true for poorly draining soils and soils with shallow ground water. Chlorantraniliprole is classified as having high potential for reaching surface water via runoff for several months or more after application. A level, well-maintained vegetative buffer strip between areas to which this product is applied and surface water features such as ponds, streams, and springs will reduce the potential loading of chlorantraniliprole from runoff water and sediment. Runoff of this product will be reduced by avoiding applications when rainfall is forecasted to occur within 48 hours.
- **Ground Water Advisory:** Chlorantraniliprole has properties and characteristics associated with chemicals detected in ground water. This chemical may leach into ground water if used in areas where soils are permeable, particularly where the water table is shallow.
- Seed treated with Lumivia may be replanted if an emergency replanting due to a crop failure occurs.
- [Not registered for use in California on Cereal Grains Crop Group 15.]
- [Not registered for use in California on Dried Shelled Pea and Bean Subgroup 6C.]

Crop Rotation

Crops on this label and the following crops or crop groups may be planted immediately following harvest: Artichoke, globe; Asparagus; Banana/Plantain; Brassica (Cole) Leafy Vegetables (Crop Group 5); Bulb Vegetables (Crop Group 3-07); Bushberry subgroup (Crop subgroup 13-07B); Cacao; Caneberry subgroup (Berry and Small Fruit Crop Group subgroup 13-07A); Cereal Grains (Crop Group 15); Forage, Fodder, and Straw of Cereal Grains (Crop Group 16); Citrus (Crop Group 10-10); Coffee; Corn (field, pop, seed, and sweet); Cotton; Cucurbit Vegetables (Crop Group 9); Figs; Fruiting Vegetables (Crop Group 8-10); Grass Forage, Fodder, and Hay Group (Crop Group 17); Herbs subgroup (Crop Group subgroup 19A); Grape; Hops; Large Shrub/Tree Berry subgroup (Crop subgroup 13-07C); Leafy Vegetables (nonbrassica, Crop Group 4); Legume Vegetables (Crop Group 6); Foliage of Legume Vegetables (Crop Group 7); Low Growing Berry subgroup (Crop subgroup 13-07G); Nongrass Animal Feeds (Forage, Fodder, Straw, and Hay Crop Group 18); Okra; Oilseed Group (Crop Group 20); Olives; Peanut; Persimmons; Pome Fruits (Crop Group 11-10); Pineapple; Pomegranates; Prickly Pear Cactus; Rice; Root and Tuber Vegetables (Crop Group 1); Leaves of Root and Tuber Vegetables (Crop Group 2); Small Fruit Vine Climbing subgroup, except fuzzy kiwifruit (Berry and Small Fruit Crop Group subgroup 13-07F); Soybean; Spice subgroup (Crop Group subgroup 19B); Spearmint and Peppermint; Stone Fruits (Crop Group 12-12); Sugarcane; Tea; Tree Nuts and Pistachio (Crop Group 14); Tobacco; and Tropical Fruits. All other crops cannot be planted until 12 months after the last planting of chlorantraniliprole-treated seed.

Storage and Disposal

Do not contaminate water, food, or feed by storage or disposal.

PESTICIDE STORAGE: Do not subject to temperatures below 32 degrees F. Store product in original container only in a location inaccessible to children and pets. Do not contaminate water, other pesticides, fertilizer, food or feed in storage. Not for use or storage in or around the home.

PESTICIDE DISPOSAL: Do not contaminate water, food or feed by storage or disposal. Wastes resulting from the use of this product must be disposed of on site or at an approved waste disposal facility.

CONTAINER HANDLING:

Nonrefillable Rigid Plastic and Metal Containers (Capacity Equal to or Less Than 5 Gallons):

Nonrefillable container. Do not reuse or refill this container. Triple rinse container (or equivalent) promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container 1/4 full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times. Then, for Plastic Containers, offer for recycling if available or puncture and dispose of in a sanitary landfill, or by incineration. For Metal Containers, offer for recycling if available or reconditioning if appropriate or puncture and dispose of in a sanitary landfill, or by other procedures approved by state and local authorities.

Nonrefillable Plastic and Metal Containers (Capacity Greater Than 5 Gallons): Nonrefillable container. Do not reuse or refill this container. Triple rinse container (or equivalent) promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container 1/4 full with water. Replace and tighten closures. Tip container on its side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds. Stand the container on its end and tip it back and forth several times. Turn the container over onto its other end and tip it back and forth several times. Empty the rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Repeat this procedure two more times. Then, for Plastic Containers, offer for recycling if available or puncture and dispose of in a sanitary landfill, or by incineration. For Metal Containers, offer for recycling if available or reconditioning if appropriate or puncture and dispose of in a sanitary landfill, or by other procedures approved by state and local authorities.

Nonrefillable Plastic and Metal Containers, e.g., Intermediate Bulk Containers [IBC] (Size or Shape Too Large to be Tipped, Rolled or Turned Upside Down): Nonrefillable container. Do not reuse or refill this container. Clean container promptly after emptying the contents from this container into application equipment or mix tank and before final disposal using the following pressure rinsing procedure. Insert a lance fitted with a suitable tank cleaning nozzle into the container and ensure that the water spray thoroughly covers the top, bottom and all sides inside the container. The nozzle manufacturer generally provides instructions for the appropriate spray pressure, spray duration and/or spray volume. If the manufacturer's instructions are not available, pressure rinse the container for at least 60 seconds using a minimum pressure of 30 PSI with a minimum rinse volume of 10% of the container volume. Drain, pour or pump rinsate into application equipment or rinsate collection system. Repeat this pressure rinsing procedure two more times. Then, for Plastic Containers, offer for recycling if available or puncture and dispose of in a sanitary landfill, or by incineration. For Metal Containers, offer for recycling if available or reconditioning if appropriate, or puncture and dispose of in a sanitary landfill, or by other procedures approved by state and local authorities.

(Refillable Plastic and Metal Containers, e.g., Intermediate Bulk Containers [IBC] (Size or Shape Too Large to be Tipped, Rolled, or Turned Upside Down)): Refillable container. *Refilling Container:* Refill this container with this product containing Chlorantraniliprole only. Do not reuse this container for any other purpose. Cleaning before refilling is the responsibility of the refiller. Prior to refilling, inspect carefully for damage such as cracks, punctures, abrasions, worn out threads and closure devices. If leaks are found, do not reuse or transport container, call the number below for instructions. *Disposing of Container:* Do not reuse this container for any other purpose other than refilling (see preceding). Cleaning the container before final disposal is the responsibility of the person disposing of the container. To clean the container before final disposal, use the following pressure rinsing procedure. Insert a lance fitted with a suitable tank cleaning nozzle into the container and ensure that the water spray thoroughly covers the top, bottom and all sides inside the container. The nozzle manufacturer generally provides instructions for the appropriate spray pressure, spray duration and/or spray volume. If the manufacturer's instructions are not available, pressure rinse the container for at least 60 seconds using a minimum pressure of 30 PSI with a minimum rinse

volume of 10% of the container volume. Drain, pour or pump rinsate into application equipment or rinsate collection system. Repeat this pressure rinsing procedure two more times. Then, for Plastic Containers, offer for recycling if available or puncture and dispose of in a sanitary landfill, or by incineration. For Metal Containers, offer for recycling if available or reconditioning if appropriate, or puncture and dispose of in a sanitary landfill, or by other procedures approved by state and local authorities.

Do not transport if container is damaged or leaking. If the container is damaged, leaking or obsolete, or in the event of a major spill, fire or other emergency, contact Corteva Agriscience at 1-800-992-5994, day or night.

Terms and Conditions of Use

If terms of the following Warranty Disclaimer, Inherent Risks of Use and Limitation of Remedies are not acceptable, return unopened package at once to the seller for a full refund of purchase price paid. To the extent permitted by law, use by the buyer or any other user constitutes acceptance of the terms under Warranty Disclaimer, Inherent Risks of Use and Limitation of Remedies.

Warranty Disclaimer

Corteva Agriscience warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes stated on the label when used in strict accordance with the directions, subject to the inherent risks set forth below. To the extent permitted by law, Corteva Agriscience MAKES NO OTHER EXPRESS OR IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE OR ANY OTHER EXPRESS OR IMPLIED WARRANTY.

Inherent Risks of Use

It is impossible to eliminate all risks associated with use of this product. Crop injury, lack of performance, or other unintended consequences may result because of such factors as use of the product contrary to label instructions (including conditions noted on the label, such as unfavorable temperatures, soil conditions, etc.), abnormal conditions (such as excessive rainfall, drought, tornadoes, hurricanes), presence of other materials, the manner of application, or other factors, all of which are beyond the control of Corteva Agriscience or the seller. Corteva Agriscience will not be responsible for losses or damages resulting from the use of this product in any manner not specifically directed by Corteva Agriscience. To the extent permitted by law, all such risks associated with non-directed use shall be assumed by buyer and/or user.

Limitation of Remedies

To the extent permitted by law, the exclusive remedy for losses or damages resulting from this product (including claims based on contract, negligence, tort, strict liability, or other legal theories), shall be limited to, at Corteva Agriscience's election, one of the following:

1. Refund of purchase price paid by buyer or user for product bought, or
2. Replacement of amount of product used.

To the extent permitted by law, Corteva Agriscience shall not be liable for losses or damages resulting from handling or use of this product unless Corteva Agriscience is promptly notified of such loss or damage in writing. To the extent permitted by law, in no case shall Corteva Agriscience be liable for consequential, incidental or special damages or losses.

The terms of the Warranty Disclaimer, Inherent Risks of Use and this Limitation of Remedies cannot be varied by any written or verbal statements or agreements. No employee or sales agent of Corteva Agriscience or the seller is authorized to vary or exceed the terms of the Warranty Disclaimer or this Limitation of Remedies in any manner.

TM®Trademarks of Corteva Agriscience and its affiliated companies

EPA Accepted ___/___/___

Supplemental Labeling

Corteva Agriscience

9330 Zionsville Road

Indianapolis, IN 46268-1054 USA

Lumivia®

EPA Reg. No. 352-841

This supplemental label expires on November 18, 2025, and must not be used or distributed after this date.

For Seed Treatment Application On-Farm or at Commercial Seed Treatment Facilities to Cereal Grains Crop Group 15 (except corn, rice, and sorghum)

[Not registered for use in California.]

ATTENTION

- It is a violation of Federal law to use this product in a manner inconsistent with its labeling.
- This labeling must be in the possession of the user at the time of application.
- Read the label affixed to the container for this product before applying. Carefully follow all precautionary statements and applicable use directions.
- Use of this product according to this supplemental labeling is subject to all use precautions and limitations imposed by the label affixed to the container for this product.

Keep Out of Reach of Children

Directions for Use

Agricultural Use Requirements

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR Part 170. This Standard contains requirements for the protection of agricultural workers on farms, forests, nurseries, and greenhouses, and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification, and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on this label about personal protective equipment (PPE), and restricted entry interval. The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard.

Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application. For any requirement specific to your State and Tribe, consult the State/Tribal agency responsible for pesticide regulation.

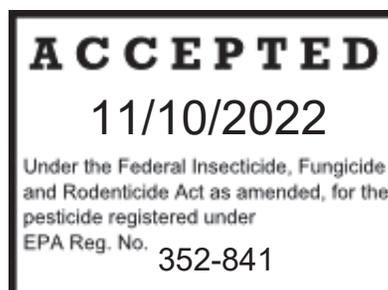
Do not enter or allow worker entry into treated areas during the restricted entry interval (REI) of 4 hours.

Exception: Once the seeds are planted in soil, the Worker Protection Standard, under certain circumstances, allows workers to enter the treated area without restriction if there will be no worker contact with the soil subsurface or treated seed.

For early entry to treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soil, or water, wear:

- Long-sleeved shirt and long pants
- Shoes plus socks

Read all Directions for Use carefully before applying.



ON-FARM OR COMMERCIAL SEED TREATMENT FACILITIES

On-farm seed treatment application at agricultural establishments is permitted utilizing mechanical, slurry, or mist-type seed treating equipment, provided that the equipment can be calibrated to accurately and uniformly apply the product to seed.

Cereal Grains Crop Group 15 (except corn, rice, and sorghum) – Seed Treatment

This product will provide protection against early season injury from armyworm, cutworm, grasshopper, seedcorn maggot, and wireworm.

Listed crop seed treated with this product may be replanted if an emergency replanting due to crop failure occurs.

Use this product on-farm at agricultural establishments or at commercial seed treatment facilities as directed to listed crop seeds in the following use-rate table for control of listed insects.

Seed Crop	Pest*	fl oz product / 100 lb of seed	lb active ingredient / 100 lb of seed	g active ingredient / 100 kg of seed
<ul style="list-style-type: none"> • Barley • Buckwheat • Millet, pearl • Millet, proso • Oats • Rye • Triticale • Wheat 	<ul style="list-style-type: none"> • Armyworm • Cutworm • Grasshopper • Seedcorn maggot • Wireworm 	0.5 to 0.75 fl oz	0.02 to 0.03 lb	20 to 30 g
<p>Restrictions</p> <ul style="list-style-type: none"> • Do not exceed a maximum of 0.054 lb chlorantraniliprole per acre (25 grams ai/acre) regardless of seeding density.*** • Do not apply more than 0.2 lb ai of chlorantraniliprole-containing products per acre per calendar year. • Plant seeds treated with this product at a soil depth of 1 to 2 inches. • Treated seed exposed on soil surface may be hazardous to aquatic invertebrates. Cover or collect treated seeds spilled during loading. • Corn and sorghum must be treated in commercial seed treatment facilities only. Not for use on-farm at agricultural establishments. • Not for use on rice. • [Not registered for use in California.] 				

* Use the higher rates within the rate range in areas that are predicted to have high pest pressure.

$$*** = \text{Treatment rate} \left(\frac{\text{lb chlorantraniliprole}}{100 \text{ lb seed}} \right) \times \text{Seeding rate} \left(\frac{\text{lb seed}}{\text{acre}} \right)$$

Commercial Seed Bag Labeling Requirements

The Federal Seed Act requires that the container of seed treated with Lumivia must be labeled with the following information:

- This seed has been treated with Lumivia® which contains chlorantraniliprole.
- Do not use for food, feed, or oil processing.
- User is responsible for ensuring that the seed container meets all requirements under the Federal Seed Act.

In addition, the U.S. Environmental Protection Agency requires the following statements on the container of seed treated with Lumivia (EPA Reg. No. 352-841):

- Do not exceed a maximum of 0.054 lb chlorantraniliprole per acre (25 grams ai/A) regardless of seeding density.
- Following the planting of Lumivia-treated seed, total foliar applications for a crop must not exceed a total rate of 0.146 lb chlorantraniliprole per acre. Soil applications of products containing chlorantraniliprole are not permitted if seeds treated with chlorantraniliprole are planted.
- This cereal grain seed has been treated with chlorantraniliprole at 0.XX [up to 0.03] lb ai per 100 lbs of seed.
- Do not apply more than 0.2 lb ai of any chlorantraniliprole-containing products per acre per calendar year.
- Use of seed treated with Lumivia must be communicated to all personnel involved in seasonal insect control applications.
- Plant cereal grain seeds treated with Lumivia at a soil depth of 1 to 2 inches.
- Except for emergency replant situations, following the planting of seed treated with Lumivia, do not apply chlorantraniliprole or other Group 28 products for 60 days. Application(s) to the next generation of target pest(s) must be with an effective product with a different mode of action (non-Group 28 insecticide).
- Treated seed exposed on soil surface may be hazardous to aquatic invertebrates. Ensure planted seed is covered with soil. Cover or collect spilled seeds.
- Store away from food or feed.
- Dispose of all excess treated seed by burying seed away from bodies of water.
- Do not contaminate water bodies when disposing of planting equipment washwaters.
- **Surface Water Advisory:** This product contains chlorantraniliprole which may impact surface water quality due to runoff of rain water. This is especially true for poorly draining soils and soils with shallow ground water. Chlorantraniliprole is classified as having high potential for reaching surface water via runoff for several months or more after application. A level, well-maintained vegetative buffer strip between areas to which this product is applied and surface water features such as ponds, streams, and springs will reduce the potential loading of chlorantraniliprole from runoff water and sediment. Runoff of this product will be reduced by avoiding applications when rainfall is forecasted to occur within 48 hours.
- **Ground Water Advisory:** Chlorantraniliprole has properties and characteristics associated with chemicals detected in ground water. This chemical may leach into ground water if used in areas where soils are permeable, particularly where the water table is shallow.
- Seed treated with Lumivia may be replanted if an emergency replanting due to a crop failure occurs.
- [Not registered for use in California.]

Crop Rotation

Crops on this label and the following crops or crop groups may be planted immediately following harvest: Artichoke, globe; Asparagus; Banana/Plantain; Brassica (Cole) Leafy Vegetables (Crop Group 5); Bulb Vegetables (Crop Group 3-07); Bushberry subgroup (Crop subgroup 13-07B); Cacao; Caneberry subgroup (Berry and Small Fruit Crop Group subgroup 13-07A); Cereal Grains (Crop Group 15); Forage, Fodder, and Straw of Cereal Grains (Crop Group 16); Citrus (Crop Group 10-10); Coffee; Corn (field, pop, seed, and sweet); Cotton; Cucurbit Vegetables (Crop Group 9); Figs; Fruiting Vegetables (Crop Group 8-10); Grass Forage, Fodder, and Hay Group (Crop Group 17); Herbs subgroup (Crop Group subgroup 19A); Grape; Hops; Large Shrub/Tree Berry subgroup (Crop subgroup 13-07C); Leafy Vegetables (nonbrassica, Crop Group 4); Legume Vegetables (Crop Group 6); Foliage of Legume Vegetables (Crop Group 7); Low Growing Berry subgroup (Crop subgroup 13-07G); Nongrass Animal Feeds (Forage, Fodder, Straw, and Hay Crop Group 18); Okra; Oilseed Group (Crop Group 20); Olives; Peanut; Persimmons; Pome Fruits (Crop Group 11-10); Pineapple; Pomegranates; Prickly Pear Cactus; Rice; Root and Tuber Vegetables (Crop Group 1); Leaves of Root and Tuber Vegetables (Crop Group 2); Small Fruit Vine Climbing subgroup, except fuzzy kiwifruit (Berry and Small Fruit Crop Group subgroup 13-07F); Soybean; Spice subgroup (Crop Group subgroup 19B); Spearmint and Peppermint; Stone Fruits (Crop Group 12-12); Sugarcane; Tea; Tree Nuts and Pistachio (Crop Group 14); Tobacco; and Tropical Fruits. All other crops cannot be planted until 12 months after the last planting of chlorantraniliprole-treated seed.

R642-002

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Initial printing

Supplemental Labeling

Corteva Agriscience

9330 Zionsville Road

Indianapolis, IN 46268-1054 USA

Lumivia®

EPA Reg. No. 352-841

This supplemental label expires on November 18, 2025, and must not be used or distributed after this date.

For Seed Treatment Application On-Farm or at Commercial Seed Treatment Facilities to Dried Shelled Pea and Bean (Except Soybean) Subgroup 6C

[Not registered for use in California.]

ATTENTION

- It is a violation of Federal law to use this product in a manner inconsistent with its labeling.
- This labeling must be in the possession of the user at the time of application.
- Read the label affixed to the container for this product before applying. Carefully follow all precautionary statements and applicable use directions.
- Use of this product according to this supplemental labeling is subject to all use precautions and limitations imposed by the label affixed to the container for this product.

Keep Out of Reach of Children

Directions for Use

Agricultural Use Requirements

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR Part 170. This Standard contains requirements for the protection of agricultural workers on farms, forests, nurseries, and greenhouses, and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification, and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on this label about personal protective equipment (PPE), and restricted entry interval. The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard.

Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application. For any requirement specific to your State and Tribe, consult the State/Tribal agency responsible for pesticide regulation.

Do not enter or allow worker entry into treated areas during the restricted entry interval (REI) of 4 hours.

Exception: Once the seeds are planted in soil, the Worker Protection Standard, under certain circumstances, allows workers to enter the treated area without restriction if there will be no worker contact with the soil subsurface or treated seed.

For early entry to treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soil, or water, wear:

- Long-sleeved shirt and long pants
- Shoes plus socks

Read all Directions for Use carefully before applying.

ACCEPTED

11/10/2022

Under the Federal Insecticide, Fungicide
and Rodenticide Act as amended, for the
pesticide registered under

EPA Reg. No. 352-841

ON-FARM OR COMMERCIAL SEED TREATMENT FACILITIES

On-farm seed treatment application at agricultural establishments is permitted utilizing mechanical, slurry, or mist-type seed treating equipment, provided that the equipment can be calibrated to accurately and uniformly apply the product to seed.

Dried Shelled Pea and Bean (Except Soybean) Subgroup 6C – Seed Treatment

This product will provide protection against early season injury from armyworm, cutworm, grasshopper, pea leaf weevil, seedcorn maggot, and wireworm.

Listed crop seed treated with this product may be replanted if an emergency replanting due to crop failure occurs.

Use this product on-farm at agricultural establishments or at commercial seed treatment facilities as directed to listed crop seeds in the following use-rate table for control of listed insects.

Seed Crop	Pest*	fl oz of product / 100 lb of seed	lb active ingredient / 100 lb of seed	g active ingredient / 100 kg of seed
Dried cultivars of bean (<i>Lupinus</i> spp.) (includes grain lupin, sweet lupin, white lupin, and white sweet lupin); (<i>Phaseolus</i> spp.) (includes field bean, kidney bean, lima bean (dry), navy bean, pinto bean, tepary bean); bean (<i>Vigna</i> spp.) (includes adzuki bean, blackeyed pea, catjang, cowpea, Crowder pea, moth bean, mung bean, rice bean, southern pea, urd bean); broad bean (dry); chickpea; guar; lablab bean; lentil; pea (<i>Pisum</i> spp.) (includes field pea); pigeon pea)	<ul style="list-style-type: none"> • Armyworm • Cutworm • Grasshopper • Pea leaf weevil • Seedcorn maggot • Wireworm 	When planting rate is 75 to 180 lbs/acre:		
		0.5 to 0.74 fl oz	0.02 to 0.03 lb	20 to 30 g
		When planting rate is less than 75 lbs/acre:		
		0.75 to 1.75 fl oz	0.03 to 0.07 lb	31 to 71 g

Restrictions

- Do not exceed a maximum of 0.054 lb chlorantraniliprole per acre (25 grams ai/acre) regardless of seeding density.***
- Do not apply more than 0.2 lb ai of chlorantraniliprole-containing products per acre per calendar year.
- Plant seeds treated with this product at a soil depth of 1 to 2 inches.
- Treated seed exposed on soil surface may be hazardous to aquatic invertebrates. Cover or collect treated seeds spilled during loading.
- [Not registered for use in California.]

* Use the higher rates within the rate range in areas that are predicted to have high pest pressure.

$$*** = \text{Treatment rate} \left(\frac{\text{lb chlorantraniliprole}}{100 \text{ lb seed}} \right) \times \text{Seeding rate} \left(\frac{\text{lb seed}}{\text{acre}} \right)$$

Examples of chlorantraniliprole application rates per acre

To calculate lbs of chlorantraniliprole per acre from Lumivia, use the following table:

Treatment rate (lb active ingredient / 100 lb of seed)	Seeding rate (lb seed/acre)	lb chlorantraniliprole per acre
0.02	50	Not a labeled use rate
	75	0.015
	130	0.026
	180	0.036
0.03	50	0.015
	75	0.023
	130	0.039
	180	0.054
0.07	50	0.035
	75	0.053
	130	Not a labeled use rate
	180	Not a labeled use rate

Restriction: Do not exceed a maximum of 0.054 lb chlorantraniliprole per acre (25 grams ai/acre) regardless of seeding density.

Commercial Seed Bag Labeling Requirements

The Federal Seed Act requires that the container of seed treated with Lumivia must be labeled with the following information:

- This seed has been treated with Lumivia® which contains chlorantraniliprole.
- Do not use for food, feed, or oil processing.
- User is responsible for ensuring that the seed container meets all requirements under the Federal Seed Act.

In addition, the U.S. Environmental Protection Agency requires the following statements on the container of seed treated with Lumivia (EPA Reg. No. 352-841):

- Do not exceed a maximum of 0.054 lb chlorantraniliprole per acre (25 grams ai/A) regardless of seeding density.
- Following the planting of Lumivia-treated seed, total foliar applications for a crop must not exceed a total rate of 0.146 lb chlorantraniliprole per acre. Soil applications of products containing chlorantraniliprole are not permitted if seeds treated with chlorantraniliprole are planted.
- This dried shelled pea and bean seed has been treated with chlorantraniliprole at 0.XX [up to 0.07] lb ai per 100 lbs of seed.
- Do not apply more than 0.2 lb ai of any chlorantraniliprole-containing products per acre per calendar year.
- Use of seed treated with Lumivia must be communicated to all personnel involved in seasonal insect control applications.
- Plant dried shelled pea and bean seeds treated with Lumivia at a soil depth of 1 to 2 inches.
- Except for emergency replant situations, following the planting of seed treated with Lumivia, do not apply chlorantraniliprole or other Group 28 products for 60 days. Application(s) to the next generation of target pest(s) must be with an effective product with a different mode of action (non-Group 28 insecticide).
- Treated seed exposed on soil surface may be hazardous to aquatic invertebrates. Ensure planted seed is covered with soil. Cover or collect spilled seeds.
- Store away from food or feed.
- Dispose of all excess treated seed by burying seed away from bodies of water.
- Do not contaminate water bodies when disposing of planting equipment washwaters.
- **Surface Water Advisory:** This product contains chlorantraniliprole which may impact surface water quality due to runoff of rain water. This is especially true for poorly draining soils and soils with shallow ground water. Chlorantraniliprole is classified as having high potential for reaching surface water via runoff for several months or more after application. A level, well-maintained vegetative buffer strip between areas to which this product is applied and surface water features such as ponds, streams, and springs will reduce the potential loading of chlorantraniliprole from runoff water and sediment. Runoff of this product will be reduced by avoiding applications when rainfall is forecasted to occur within 48 hours.
- **Ground Water Advisory:** Chlorantraniliprole has properties and characteristics associated with chemicals detected in ground water. This chemical may leach into ground water if used in areas where soils are permeable, particularly where the water table is shallow.
- Seed treated with Lumivia may be replanted if an emergency replanting due to a crop failure occurs.
- [Not registered for use in California.]

Crop Rotation

Crops on this label and the following crops or crop groups may be planted immediately following harvest: Artichoke, globe; Asparagus; Banana/Plantain; Brassica (Cole) Leafy Vegetables (Crop Group 5); Bulb Vegetables (Crop Group 3-07); Bushberry subgroup (Crop subgroup 13-07B); Cacao; Caneberry subgroup (Berry and Small Fruit Crop Group subgroup 13-07A); Cereal Grains (Crop Group 15); Forage, Fodder, and Straw of Cereal Grains (Crop Group 16); Citrus (Crop Group 10-10); Coffee; Corn (field, pop, seed, and sweet); Cotton; Cucurbit Vegetables (Crop Group 9); Figs; Fruiting Vegetables (Crop Group 8-10); Grass Forage, Fodder, and Hay Group (Crop Group 17); Herbs subgroup (Crop Group subgroup 19A); Grape; Hops; Large Shrub/Tree Berry subgroup (Crop subgroup 13-07C); Leafy Vegetables (nonbrassica, Crop Group 4); Legume Vegetables (Crop Group 6); Foliage of Legume Vegetables (Crop Group 7); Low Growing Berry subgroup (Crop subgroup 13-07G); Nongrass Animal Feeds (Forage, Fodder, Straw, and Hay Crop Group 18); Okra; Oilseed Group (Crop Group 20);Olives; Peanut; Persimmons; Pome Fruits (Crop Group 11-10); Pineapple; Pomegranates; Prickly Pear Cactus; Rice; Root and Tuber Vegetables (Crop Group 1); Leaves of Root and Tuber Vegetables (Crop Group 2); Small Fruit Vine Climbing subgroup, except fuzzy kiwifruit (Berry and Small Fruit Crop Group subgroup 13-07F); Soybean; Spice subgroup (Crop Group subgroup 19B); Spearmint and Peppermint; Stone Fruits (Crop Group 12-12); Sugarcane; Tea; Tree Nuts and Pistachio (Crop Group 14); Tobacco; and Tropical Fruits. All other crops cannot be planted until 12 months after the last planting of chlorantraniliprole-treated seed.

R642-003

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